

NOTICE
DESIGN PROFESSIONAL SELECTIONS
FOR
DEPARTMENT OF GENERAL SERVICES

The Selections Committee for the Department of General Services will meet to consider selection of Design Professionals for the following projects:

PROJECT NO. DGS 251-71 PHASE 1 – Construct New County Maintenance Facility, PennDOT District 8-4, York, York County, PA. Construction Cost: \$10,500,000. The scope of work includes, but is not limited to, Design and Construct a new PennDOT York County Maintenance Garage totaling approximately 50,000 square feet and Land Acquisition. New County Facility to include: general office space, truck wash, garage mechanics bays, weld shop, lunch/break rooms, restrooms, conference room, data closet, file storage, tire storage fueling facility, salt storage and adequate parking. Emergency generator needed to provide power to entire facility.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 251-72 PHASE 1 – Construction New County Maintenance Facility, PennDOT District 3-9, Towanda, Bradford County, PA. Construction Cost: \$12,000,000. The scope of work includes, but is not limited to, design and construct a new PennDOT Bradford County Maintenance Garage/Office and Stockpile development on a PennDOT owned existing 01 site of approximately 8.25 acres. New Bradford County facility to include: general office space; garage mechanics bays; garage office weld shop lunch/break rooms, restrooms, conference room, data closet, file storage,

adequate parking, general and storage building, personnel building, truck wash, de-icing manufacturing building, bridge-beam construction building and other ancillary out building. Emergency generator needed to provide power to entire facility including all existing buildings at the stockpile. Parking design to accommodate for additional staff/visitors based on conference room sizing.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 373-6 PHASE 1 – Roof Replacements, State Correctional Institution – Mahanoy, Mahanoy Twp., Schuylkill County, PA. Construction Cost: \$3,040,000. The scope of work includes, but is not limited to, replacement of roofs on various buildings, and other associated work as required. A prioritized list of buildings will be developed by DOC in coordination with the design professional.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 375-6 PHASE 1 – Roof Replacements, State Correctional Institution – Coal Township, Coal Twp., Northumberland County, PA. Construction Cost: \$2,800,000. The scope of work includes, but is not limited to, replacement of roof on various inmate housing units, and other associated work as required.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS A 377-1 – Construct Meat Processing Plant, State Correctional Institution – Forest, Marienville, Forest County, PA. Construction Cost: \$6,000,000. The scope of work includes, but is not limited to, complete the construction of the existing “CI Building” at State Correctional Institution – Forest to function as a Meat Processing Plant. The existing building is a shell structure with a gravel floor.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 402-62 PHASE 1 – Renovate Cover Hall, California University California Borough, Washington County, PA. Construct Cost: \$9,000,000. The Scope of work includes, but is not limited to, major lifecycle renovation. The building has no central air conditioning system, original windows, aging roof systems, plumbing systems, and site drainage conditions that contribute to mold conditions on the lower level. It has no ADA access, antiquated electrical systems fire alarm systems, and interior finishes. This renovation will incorporate the latest technologies capable of providing the programs outlined above with the most modern methods of instruction. When renovation is completed, Coover will also house the new Mechatronics labs and department. Mechatronics is a design process that includes a combination of mechanical engineering, electrical engineering, telecommunications engineering, control engineering, and computer engineering. This program is becoming a highly sought after major in this area.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 513-33 PHASE 1 – Upgrade Existing Coal-Fired Boilers, Torrance State Hospital, Torrance State Hospital, Derry Twp., Westmoreland County, PA. Construction Cost: \$5,500,000. The scope of work includes, but is not limited to, rehabilitation and or replacement of the existing coal boilers which are in a severely deteriorated condition. Should new boilers be necessary, the project may require demolition of the existing boilers in the existing boiler plant building or the construction of new steel sided auxiliary to make sufficient square footage available to sight new package boilers.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 576-10 PHASE 1 – Roof Replacements, State Correctional Institution – Chester, Chester Twp., Delaware County, PA. Construction Cost: \$5,600,000. The scope of work includes, but is not limited to, replacement of roofs on various buildings, and other associated work as required. A prioritized list of buildings will be developed by DOC in coordination with the design professional.

Professional Design Basic Services Fee for this project will be negotiated.

PROJECT NO. DGS 948-76 PHASE 4 – Theatrical Lighting, Forum Building, The Capitol Complex, Harrisburg, Dauphin County, PA. Construction Cost: \$300,000. The scope of work includes, but is not limited to, the in-kind replacement of all existing theatrical lighting fixtures and controls within the auditorium & stage with new LED type/digital controls/light board and cabling.

Professional Design Basic Services Fee for this project will be negotiated.

REQUIREMENTS AND INFORMATION

PROJECT PROGRAMS

A Project Program, prepared by the Using Agency, is available for the following projects:

DGS 251-71 Phase 1, DGS 251-72 Phase 1, DGS 373-6 Phase 1, DGS 375-6 Phase 1,

DGS A 377-1, DGS 402-62 Phase 1, DGS 513-33 Phase 1, DGS 576-10 Phase 1, and

DGS 948-76 Phase 4. Project Programs are available on this Web Site by clicking on the project number in the above advertisement.

- A completed Form ASP-150 (Rev. 05/14), **must be received electronically at RASSELECTIONS@pa.gov before the close of business (5:00 p.m.), Thursday, July 9, 2015.** Any other method of delivery will result in the return of the Form ASP-150 to the prospective applicant. Please note - ***FORM ASP-150 (Rev. 05/14) must be signed, sent and received by the Department from the company email account of one of the individuals listed in Section 2, Item 14.***

- The fee to be paid to the appointed design professional by the Department is indicated within each specific project advertisement.

- The Selections Committee may at its discretion establish interviews with any or all of the Professionals who have requested consideration for appointment as designer for the above projects. If an interview is required, the Professional will be notified by the Committee as to the date, time and location. Additional information, in writing, may be requested by the Committee as required.

- **Additional Services - Indoor Air Quality Assessment Program and Hazardous Materials**
 - The Professional firm selected to design a project will be expected to perform and administer, when required by the Department as Additional Services, an Indoor Air Quality Assessment Program during Building or Renovation Commissioning and the sampling, testing, inspection and monitoring for removal of any asbestos, other hazardous waste or contaminants encountered during project design or construction, unless otherwise stated in the Scope.

- **Small Diverse Business Consideration In Professional Selections**
 - The Department of General Services encourages the participation of Small Minority Business Enterprises, Small Women Business Enterprises, Small Veteran Business Enterprises and Small Service-Disabled Veteran Business Enterprises (collectively referred to as “Small Diverse Businesses” as defined under Title 4 of The Pennsylvania Code, Chapter 58) in Commonwealth Design Professional Agreements.
 - Therefore, the Selections Committee on behalf of the Department of General Services will consider participation of Small Diverse Businesses (SDB) as either the prime professional, or as a subcontracting consultant, as a factor in the final selection of Design Professionals on Commonwealth projects.
 - Firms wishing to participate in Commonwealth Design Professional Agreements should specify whether the professional or consultants being proposed on the projects are currently recognized as SDB's by the Department of General Services, Bureau of Small Business Opportunities. If the proposing firm is itself a current SDB, the firm should state that fact in its proposal.
 - In order to identify SDB's the Department of General Services' Small Diverse Design Businesses database can be accessed by clicking [HERE](#)

All applications submitted are subject to review by the Selections Committee. The Selections Committee disclaims any liability whatsoever as to its review of the applications submitted and in formulating its recommendations for selection. All recommendations for selection made by the Committee shall be final pursuant to the Commonwealth Procurement Code, 62 Pa. C.S § 101 et seq., as amended (Act 57 of May 15, 1998).

INSTRUCTIONS FOR COMPLETING AND SUBMITTING APPLICATION FORM ASP-150 (Rev. 05/14)

[FORM ASP-150 \(Rev. 05/14\) .pdf](#)

- **Please Note:**
 - Form ASP-150 has been updated and revised in its entirety as of 05/2014.
 - Design firms submitting Form ASP-150 in response to the above advertised projects must utilize the updated Form ASP-150 (Rev. 05/14), older versions will not be accepted by the Department.
 - No alterations or additions to the Form ASP-150 (Rev. 05/14) will be permitted. Any deviation may result in rejection.
 - The submission of Form ASP-150 (rev. 05/14) will only be accepted electronically. Form ASP-150 (Rev. 05/14) submitted by any other means will be rejected and returned.

- **Section 1**
 - Item 1 – Enter the DGS Project Number as indicated in the advertisement for the specific project the application is being submitted.
 - Item 2 – Enter the Project Title as indicated in the advertisement for the specific project the application is being submitted.
 - Item 3 – Enter the distance, in miles, from the firm’s office to the project site.

- **Section 2**
 - Item 4 – Enter firm’s business name.
 - Item 5 – Enter firm’s Commonwealth SAP Vendor ID (Vendor Registration can be accessed at www.pasupplierportal.state.pa.us or by calling 717-346-2676 (Harrisburg Area) or 877-435-7363 (Toll Free)).
 - Item 6 – Enter firm’s business street address.
 - Item 7 – Enter firm’s City/State.
 - Item 8 – Enter firm’s Zip Code.
 - Item 9 – Enter firm’s Phone Number
 - Item 10 – If firm is a Small Business or Small Diverse Business, enter the firm’s DGS Self-Certification Number; if the firm is a DGS verified Small Diverse Business, enter the firm’s DGS Small Business Self-Certification Certificate Number and check the appropriate Small Diverse Business Type(s). If firm is not a DGS Self Certified Small Business, enter N/A.
 - Item 11 – Check appropriate box for type(s) of firm.
 - Item 12 – Check the appropriate box for the Legal Structure of the firm.
 - Item 13 – If firm is a Corporation, enter the State in which incorporated.
 - Item 14 – List up to three (3) persons authorized to sign and execute a contract with the Commonwealth, including Name, Title, PA Registration (if registered professional) and Email Address.

- **Section 3**
 - Item 15 – List the number of full-time personnel for the specific office of the firm for which the application is being submitted, categorized by Registered, Professional Degree or Other, count each employee only once.
 - Item 16 – Enter up to three (3) consultants that will be retained to assist in the design process, including the consultant’s name, address, number of projects completed together, value of projects completed together, past projects worked together and scope of work to be assigned for the project which the application is being submitted, and registration expiration; If the consultant is a DGS Self-Certified Small Business, enter the consultant’s DGS Small Business Self-Certification Certificate Number; If the consultant is a DGS verified Small Diverse Business, enter the DGS Small Business Self-Certification Certificate Number and check the appropriate Small Diverse Business Type(s).
 - Item 17 – Enter up to five (5) individuals who will be assigned to this project, including name, firm name, registration number (if registered professional), registration expiration, physical location while on this project, general work

assignment/role on this project, individual's specialty/discipline, degree earned, year graduated and school or university.

- **Section 4**

- Item 18 – Enter the projects the firm holds with the Commonwealth that are currently in Design or Bidding Stage, including project name, agency for which the project is being developed, and final design due date or bid date.
- Item 19 - Enter the projects the firm holds with the Commonwealth that are currently in Construction, including project name, agency for which the project is being developed, scheduled completion date and current change order rate for the project.
- Item 20 – Enter up to three (3) projects that best illustrate the applying firm's qualifications for the specific project the application is being submitted, including project name, location, owner, work being performed by the firm, total value of awarded construction contracts, total value of final construction contracts at project completion, the original scheduled completion date, the actual completion date and any additional pertinent comments within the space permitted.
- Item 21 – Enter any additional comments or descriptions of relevant information supporting the firm's qualifications within the space provided. Do not exceed the space limit or attach any additional pages.

- **Certification, Signature and Submission**

- By entering firm's name, signing in the appropriate Business Type fields, either by typing in name, applying a digital signature or printing, applying wet signature and re-scanning and submitting this ASP-150 (Rev. 05/14) you agree that you are signing and submitting this Application on behalf of the firm, and have the authority to do so.
- The Form ASP-150 (Rev. 05/14) will only be accepted electronically.
- The Form ASP-150 (Rev. 05/14) is to be emailed to RA-GSSELECTIONS@pa.gov . Form ASP-150 (Rev. 05/14) submitted by any other means or older versions of Form ASP-150 will not be considered by the Committee and will be returned. PLEASE NOTE: **FORM ASP-150 (Rev. 05/14) must be signed, sent and received by the Department from the company email account of one of the individuals listed in Section 2, Item 14.**

**PROJECT NO. DGS 251-71 PHASE 1
CONSTRUCT NEW COUNTY MAINTENANCE FACILITY
PENNDOT DISTRICT 8-4
YORK, YORK COUNTY, PA**

1. NATURE AND CONCEPT OF PROJECT

A. Nature of Project

1. Design and Construct a new PennDOT York County Maintenance Garage totaling approximately **50,000** square feet.
2. Land Acquisition

B. Special Features

1. New County Facility to include: general office space, truck wash, garage mechanics bays, weld shop, lunch/break rooms; restrooms; conference room; data closet, file storage, tire storage, fueling facility, salt storage and adequate parking.
2. Emergency generator needed to provide power to entire facility.

C. Federal Funding – No Federal Funding associated with this project.

2. ORGANIZATION, FUNCTIONS AND SPACE

A. Organizational Features

1. This facility is to be the main Headquarters for all PENNDOT York County operations and equipment repair.

B. Functional Units/Equipment

1. The PENNDOT York County facility is approximately **50,000** square feet of space. This is to be verified by project designer based in sites visits and operational needs of the county that may change.
 - a. Approximately **12,000** square feet of Office space
 - b. Approximately **38,000** square feet of garage operations including a weld shop and truck-wash, does not include support and storage rooms

C. Space Requirements per DGS M260.1

1. County managers office with attached conference room
2. County equipment manager office
3. County permits office
4. Conference /Training room able to accommodate 100% of county personnel

D. Future or Adjacency Considerations - None at this time.

3. PLANS, CONCEPTS AND STUDIES

- A. Completed Documents
 - 1. PENNDOT Model County Maintenance Facility and Stockpile Reference PENNDOT Publication 284.
- B. Available Concepts/Design
 - 1. PSFEI- model garage power-point presentation
- C. Required Plans/Services
 - 1. Land Development
 - 2. All required permitting
 - 3. Construction Plans and specifications.
 - 4. Construction management and inspection

4. SITE, EXISTING STRUCTURES, PROPERTY

- A. Siting
 - 1. 01 Stockpile – 1920 Susquehanna Trail North, York, Pa
- B. Code Issues
 - 1. Unknown at this time
- C. Utility Services
 - 1. Gas Electric, Communications, City water and Sewage adjacent to property
- D. Contaminants
 - 1. Unknown at this time
- E. Conditions
 - 1. Existing site is used road frontage portion of county office and adjacent to commercial and residential development

5. AGENCY POINT OF CONTACT

- A. Terry Pearsall, Division Chief, Facilities Management Division, Bureau of Office Services, (717) 787-0466. tpearsall@pa.gov
- B. Mark Sander, Central Regional Facilities Administrator, Bureau of Office Services, (717) 787-7002. marssadel@pa.gov
- C. Emanuel Walker, District 8 Facilities Administrator, Facilities Management Division, Bureau of Office Services, 717-943-3067. emwalker@pa.gov.

PROJECT NO. DGS 251-72
CONSTRUCTION NEW COUNTY MAINTENANCE FACILITY
PENNDOT DISTRICT 3-9
TOWANDA, BRADFORD COUNTY, PA

1. NATURE AND CONCEPT OF PROJECT

A. Nature of Project

1. Design and construct a new PennDOT Bradford County Maintenance Garage/Office and Stockpile development on a PennDOT owned existing 01 site of approximately 8.25 acres.

B. Special Features

1. New Bradford County facility to include: general office space; garage mechanics bays; garage office; weld shop; lunch/break rooms; restrooms; conference room; data closet; file storage, adequate parking, general and storage buildings, personnel building, truck wash, de-icing manufacturing building, bridge-beam construction building and other ancillary out buildings
2. Emergency generator needed to provide power to entire facility including all existing buildings at the stockpile.
3. Parking design to accommodate for additional staff/visitors based on conference room sizing

C. Federal Funding – No Federal Funding associated with this project.

2. ORGANIZATION, FUNCTIONS AND SPACE

A. Organizational Features

1. This facility is to be the main headquarters for all PennDOT Bradford County operations and equipment repair.

B. Functional Units/Equipment

1. The PennDOT Bradford County facility is to include sufficient office space for County management and clerical staff and at least 4 drive-through repair bays and a drive through vehicle lift bay for garage repair operations. Garage portion of the building will also include a weld shop, sign shop, truck wash and a supply room.

C. Space Requirements

1. Private office and conference room for the county manager in accordance with DGS space guidelines
2. Workstations for all other personnel in accordance with DGS space guidelines

3. Conference/Training room able to accommodate 110 personnel and parking design to accommodate.

D. Future or Adjacency Considerations - None at this time.

3. PLANS, CONCEPTS AND STUDIES

A. Completed Documents

1. Site plan to the appointed Professional
2. PennDOT Publication 284.

B. Available Concepts/Design

1. PSFEI- model garage power-point presentation

C. Required Plans/Services

1. Land development if required
2. All required permitting
3. Construction plans and specifications.
4. Construction management and inspection

4. SITE, EXISTING STRUCTURES, PROPERTY

A. Siting

1. 340 York Avenue, Towanda, Pa. 18848

B. Code Issues

1. None at this time

C. Utility Services

1. Water, sewer, electric and gas available on site

D. Contaminants

1. Unknown at this time – no environmental covenants

E. Conditions

1. The site is the existing maintenance facility and will have to remain operational during construction.

5. AGENCY POINT OF CONTACT

A. Terrence G. Pearsall, Acting Chief, Facilities Management Division, Bureau of Office Services, (717) 787-0466. tpearsall@pa.gov

B. Michael D. Reiter, Northern Regional Facilities Administrator, Facilities Management Division, Bureau of Office Services, 717-649-8164. mreiter@pa.gov

C. Bo Anceravage, District 3-0 Facility Administrator, Facilities Management Division, Bureau of Office Services, 717-805-4116. vanceravag@pa.gov

PROJECT NO. DGS 373-6 PHASE 1

**ROOF REPLACEMENTS
SCI - MAHANOY
MAHANOY TWP., SCHUYLKILL COUNTY, PA**

1. NATURE AND CONCEPT OF PROJECT

a. Nature of Project:

The project includes replacement of roofs on various buildings, and other associated work as required. A prioritized list of buildings will be developed by DOC in coordination with the design professional.

b. Special Features:

N/A

c. Federal Funding:

N/A

2. ORGANIZATION, FUNCTIONS AND SPACE

a. Organizational Features:

The State Correctional Institution at Mahanoy is administered by the Pennsylvania Department of Corrections. SCI Mahanoy houses approximately 2500 adult male offenders.

b. Functional Units/Equipment:

N/A

c. Space Requirements:

N/A

d. Future or Adjacency Considerations:

N/A

3. PLANS, CONCEPTS AND STUDIES

a. Completed Documents:

Some drawings and an AutoCAD file of the overall site plan are available and will be provided to the appointed professional. All drawings and AutoCAD files must be field verified by appointed professional.

b. Available Concepts/Design:

N/A

c. Required Plans/Service:

N/A

d. **Required Tests:**

N/A

4. **SITE, EXISTING STRUCTURES, PROPERTY**

a. **Siting:**

The project is located on Commonwealth of Pennsylvania owned property. Roof replacements are on existing buildings located both inside and outside of the institution's secure perimeter, and all activity must adhere to DOC security requirements.

b. **Code Issues:**

Project must conform to all applicable Local, State, and Federal rules and regulations. There are no known code issues.

c. **Utility Services:**

Utilities are available on site within limitations of the facility.

d. **Contaminants:**

There are no known contaminant issues on this project.

e. **Conditions:**

All contractors must follow the guidelines and procedures as outlined in Department of Corrections Policy – Volume 06 Security.

5. **AGENCY POINT OF CONTACT**

Norman J. Klinikowski, P.E., Chief Engineer
Bureau of Operations
1920 Technology Parkway
Mechanicsburg, PA. 17075
(717) 728-0375

PROJECT NO. DGS 375-6 PHASE 1

**ROOF REPLACEMENTS
SCI - COAL TOWNSHIP
COAL TWP., NORTHUMBERLAND COUNTY, PA**

1. NATURE AND CONCEPT OF PROJECT

a. Nature of Project:

The project includes replacement of roofs on various inmate housing units, and other associated work as required. A prioritized list of buildings will be developed by DOC in coordination with the design professional.

b. Special Features:

N/A

c. Federal Funding:

N/A

2. ORGANIZATION, FUNCTIONS AND SPACE

a. Organizational Features:

The State Correctional Institution at Coal Township is administered by the Pennsylvania Department of Corrections. SCI Coal Township houses approximately 2200 adult male offenders.

b. Functional Units/Equipment:

N/A

c. Space Requirements:

N/A

d. Future or Adjacency Considerations:

3. PLANS, CONCEPTS AND STUDIES

a. Completed Documents:

Some drawings and an AutoCAD file of the overall site plan are available and will be provided to the appointed professional. All drawings and AutoCAD files must be field verified by appointed professional.

b. Available Concepts/Design:

N/A

c. Required Plans/Service:

N/A

d. **Required Tests:**

N/A

4. **SITE, EXISTING STRUCTURES, PROPERTY**

a. **Siting:**

The project is located on Commonwealth of Pennsylvania owned property. Roof replacements are on existing buildings located both inside and outside of the institution's secure perimeter, and all activity must adhere to DOC security requirements.

b. **Code Issues:**

Project must conform to all applicable Local, State, and Federal rules and regulations. There are no known code issues.

c. **Utility Services:**

Utilities are available on site within limitations of the facility.

d. **Contaminants:**

There are no known contaminant issues on this project.

e. **Conditions:**

All contractors must follow the guidelines and procedures as outlined in Department of Corrections Policy – Volume 06 Security.

5. **AGENCY POINT OF CONTACT**

Norman J. Klinikowski, P.E., Chief Engineer
Bureau of Operations
1920 Technology Parkway
Mechanicsburg, PA. 17075
(717) 728-0375

**PROJECT NO. DGS A 377-1
CONSTRUCT MEAT PROCESSING PLANT
STATE CORRECTIONAL INSTITUTION - FOREST
MARIENVILLE, FOREST COUNTY, PA**

1. NATURE AND CONCEPT OF PROJECT

a. Nature of Project:

This project is to complete the construction of the existing “CI Building” at SCI Forest to function as a Meat Processing Plant.

b. Special Features:

The existing building is a shell structure with a gravel floor.

c. Federal Funding:

There is no federal funding on this project.

2. ORGANIZATION, FUNCTIONS AND SPACE

a. Organizational Features:

Project design must facilitate receiving, handling, processing, packaging, and delivery of the meat products. Consideration for refrigerator/freezer requirements both within and remote to the plant, and loading/unloading of trucks must be included in the final design.

b. Functional Units/Equipment:

The construction will occur within the secured perimeter of a functioning facility, and Institutional Security requirements must be considered and included in the design and construction of this project.

c. Space Requirements:

The meat processing plant will be built within the footprint of the existing structure and design must provide for the most efficient layout of the operation for the existing area.

d. Future or Adjacency Considerations:

None

3. PLANS, CONCEPTS AND STUDIES

a. Completed Documents:

Some As-Built drawings and/or original facility construction documents are available, and will be made available for reference **to the appointed professional.**

b. Available Concepts/Design:

A feasibility study was published by the University of Pittsburgh, and the Department of Corrections will make the report available for reference and use.

c. **Required Plans/Service:**

Specialized knowledge of meat processing facilities is needed for design and equipment layout resulting in an effective and efficient meat processing plant.

d. **Required Tests:**

None.

4. **SITE, EXISTING STRUCTURES, PROPERTY**

a. **Siting:**

The project is located on property owned by the Commonwealth of Pennsylvania at SCI Forest.

b. **Code Issues:**

The project must conform to all applicable local, state, and federal rules and regulations.

c. **Utility Services:**

Utility services are available at the site.

d. **Contaminants:**

There are no known contaminant issues on this project.

e. **Conditions:**

There are no known conditional issues on this project.

5. **AGENCY POINT OF CONTACT**

Norm Klinikowski P.E., Chief Engineer
Bureau of Operations
1920 Technology Parkway
Mechanicsburg, PA. 17050
(717) 728-0375



**PROJECT NO. DGS 402-62 PHASE 1
RENOVATE COOVER HALL
CALIFORNIA UNIVERSITY
WASHINGTON COUNTY, PA**

Part I: Nature and Concept of Project

A. Requirement for Project (Academic program/mission supported)

Coover Hall (Old Industrial Arts building) was built in 1939 and has never had a lifecycle renovation. The building has no central air conditioning system, original windows, aging roof systems, plumbing systems and site drainage conditions that contribute to mold conditions on the lower level. It has no ADA access, antiquated electrical systems, fire alarm systems, and interior finishes.

Despite of these facts, Coover Hall exterior is still considered one of the architectural gems of the University. It sits strategically at the end of the quad and is utilized by multiple users. It is presently occupied by the following departments:

- a. Applied Engineering and Technology
- b. Art and Design
- c. Center for Entrepreneurial Leadership
- d. General use classroom and seminars

When the renovation is completed, Coover will also house the new Mechatronics labs and department. Mechatronics is a design process that includes a combination of mechanical engineering, electrical engineering, telecommunications engineering, control engineering, and computer engineering. This program is becoming a highly sought after major in this area.

B. Nature of the Project

This project is a life cycle renovation that will bring the building up to current building codes and allow the University students and personnel to work in an environment conducive to learning. This renovation will incorporate the latest technologies capable of providing the programs outlined above with the most modern methods of instruction.

C. Special Features

The building was intended for Industrial Arts when it was designed in 1939. As such, woodworking and metal working areas were designated with specialty labs. Architecturally, the front entrance contains marble steps and solid wood interior doors that should be preserved. The general classrooms need to be upgraded to smart classrooms with the same specified technology that exists in the rest of the smart



classrooms on campus. The entire electrical systems need to be replaced with 12,470 volt switchgear added and a second feed from the main University switch. At this time, a life safety emergency generator should be included. The entire foundation will need to be exposed in order to drain ground water away from the lower level with a French drain, remove the existing low pressure two-pipe steam heating system in its entirety, including all piping, unit ventilators, radiators, etc. Replace the two pipe steam heating system with new high efficiency natural gas boilers, pumps (with variable frequency drives for energy use reduction), and hot water piping. A chiller will be added to facilitate air conditioning throughout the building. To comply with ADA, an elevator will be installed in the center of the building with ramp access to all of the various levels. The building contains several specialty labs including the sculpture studio, graphic design studio, the physical technology lab, biotechnology lab, printmaking lab, metal working studio and the forging/casting studio.

D. Federal or Private Funds

There are no federal or private funds available for this project.

E. Alternatives

The California University of PA Master Plan is on course and proceeding in a logical and efficient progression. Coover Hall renovation is the next planned and appropriate step in the Master Plan and is consistent with the Academic Program Directions and Capital Investments for Pennsylvania's future.

Part II: Organization, Functions, and Space

A. Organizational Features (Describe special relationships with other entities and/or special requirements to accommodate this project.)

None

B. Functional Units/Equipment (Describe the functional units, number of occupants in each and special equipment requirements.)

Several of the specialty labs utilize equipment unique to the process contained in that lab. For example, the forging and casting studio contains a specialized air handling system that removes heavy metal vapors from the room as the casting process takes place. The biotechnology lab is a self-contained area that utilizes 2000 gallon built in tanks for instruction. Because of the uniqueness of the labs located in this building, it will be nearly impossible to find alternate locations, on campus, for this specialized instruction to take place. For this reason, this construction will need to take place with partial occupancy and phased completion.



- C. Space Requirements (Provide net SF requirements and other data, including special features or relationships required.)

With the addition of the Mechatronics program, an additional 3,114 square feet of specialized labs will be required.

- D. Future or Adjacency Considerations

The site plan concept continues work that has already been done across the campus to implement the campus master plan. Longer-term, the master plan converts the parking area to the north of Coover to open space once the Pollock and New Science buildings are demolished. The area to the south of Coover is to be converted into a secondary pedestrian mall, in keeping with what is proposed for Third Street. Finally, the space between Coover and Helsel would be converted to a landscaped courtyard. Given the longer-term context of the master plan, the concept plan for Coover incorporates a landscaped courtyard between Coover and Helsel. The center of this courtyard also forms an entry area to the new addition and the accessible entrance located on this side of the building. The concept plan also begins to develop the landscaped open spaces to the north and south of the building, but is limited given that the overall development of these spaces will not take place for some time. At both the north and south sides of the building, a small landscaped area is proposed to begin to establish a green perimeter to the building. On the north side of the building this will require reconfiguring the parking area and creating new walkway entrances to the building. Access to the roll-up door at the Physical Technology Lab will also have to be maintained with a paved connection to the parking lot. On the southern side of the building a similar landscaped area with entry walk is proposed, which will also require reconfiguring the parking on this side of the building. Access to the loading dock area at Noss Hall, south of Coover, will have to be maintained as part of reconfiguration of the parking in this area.

Part III: Plans, Concepts and Studies

- A. Completed Documents (Describe any documents which may be used, e.g., master plans, feasibility study, as-builts, related studies, L&I permits, etc.)
 - 1. The 2008 - 2023 Master Plan available to the appointed Professional.
 - 2. The 2013 Coover Hall Feasibility Study available to the appointed Professional.
- B. Available Concepts/Designs (Describe existing abstracts or conceptual designs available.)
 - 1. The 2013 Coover Hall Feasibility Study has existing abstracts and conceptual designs available to the appoint Professional.
- C. Special Services (Describe any special professional services anticipated, e.g., site selection, environmental study, O&M plan, life cycle plan.)
 - 1. None



- D. Required Tests (Describe required special testing, e.g., structural, subsurface, historical, environmental.)
 - 1. This building is a historical building built 75 years ago. The local historical society should be contacted for courtesy input.

Part IV: Site, Existing Structures, Property

- A. Siting (Describe siting choices and ownership of site.)

Utilize existing site.

- B. Code Issues (Describe known codes, zoning or permit issues.)

Local zoning certificate will need to be obtained.

- C. Utility Services (availability of services [temporary or permanent])

Existing 12,470 volt feed from the University main distribution center will be supplemented with an additional electrical feed for redundancy. This additional feed will be obtained from an existing manhole near the present location.

- D. Contaminants (known or suspected hazardous materials—include studies, testing reports)

Asbestos survey has been completed and can be obtained from the University EH&S department. Because of the age of construction, it can be assumed that lead based paint will be found especially on the windows to be removed.

- E. Conditions (known man-made or natural features, systems, deposits or phenomena that may influence surface or subsurface)

Mining maps are available for determining locations of previously mined areas. There are none under the Coover Hall site.

Part V: Point of Contact

Michael Peplinski
Director of Facilities Management
250 University Avenue
California University of PA
California, PA 15419

Submitted: November 20, 2014

PROJECT NO. DGS 513-33 PHASE 1

UPGRADE EXISTING COAL-FIRED BOILERS TORRANCE STATE HOSPITAL DERRY TWP., WESTMORELAND COUNTY, PA

1. NATURE AND CONCEPT OF PROJECT

a. Nature of Project

A professional engineering firm will be retained for this project that is experienced in package boiler and ancillary boiler plant equipment appurtenances specification, design and construction. The responsibilities of the professional engineering firm for this project shall generally be the following:

- The project professional shall prepare site design plans and specify, permit, procure and install two (2) new 750 H.P. steam package boilers with high efficiency, low NO_x, dual fuel (natural gas, #2 oil) capable burners inside the central boiler plant of Torrance State Hospital, Torrance, Pennsylvania.
- The project professional shall be responsible for the demolition and removal of existing, out-of-service coal fired Boilers No. 2 and Boiler No. 6 and/or adjoining office space inside of the central boiler plant to make sufficient floor space available for siting of the project's two (2) new 750 H.P. steam package boilers.
- The project professional shall be responsible for designing and implementing any structural repairs and additional support to the concrete floor of the boiler plant that is required to install the project's two (2) new 750 H.P. steam package boilers after existing coal fired boilers Nos. 1, 6 are demolished and removed.
- The project professional shall design, specify, permit, procure and install a complete aboveground storage tank system located adjacent to the central boiler plant that consists of two (2) new 29,000 gallon capacity UL-142 approved horizontally mounted diesel fuel storage tanks with double-wall steel construction, saddle supports, supply and delivery piping, spill, overflow and leak detection that meets all current PA Department of Environmental Protection (DEP) regulatory requirements to provide an emergency backup heating oil supply for the project's dual fuel boilers.
- The project professional shall repair and rehabilitate the existing Deration Tank; design, specify, furnish, and install required auxiliary boiler support equipment to include new variable speed drive feed water pumps, individual boiler exhaust rooftop stacks, utility connections, electrical service, obtain regulatory agency permits, boiler inspections and start-up, boiler tuning, commissioning and emission testing to support full operational status of the installed package boiler systems which are to permanently replace existing coal fired boiler operations at the central plant.

If budget permit (base bid) demolition and removal of the existing common brick chimney stack and old boilers exhaust duct work at the central boiler plant after the project's new steam package boilers are operational.

b. Special Features

- The professional firm shall extend and connect the existing 4” I.D. natural gas pipeline, boiler feed-water lines, steam header, boiler blow-down discharge lines and electric service inside the central boiler plant to the project’s two new 750 HP steam package boilers.
- The professional firm shall design and install supply and discharge piping which shall extend from the project’s new aboveground, diesel tank fuel storage tank system to connect with the burner train of the project’s two (2) new 750 H.P. package boilers.
- The professional firm shall design, specify, furnish and install all newly required utility connections, controls, electrical wiring, cabling, conduit, circuit breakers and panel boxes, plumbing, fuel lines, steam, water, condensate return, piping insulation, exhaust breeching extensions and new roof top stacks as required to install the project’s new package boilers to provide fully functional package boiler systems at the central boiler plant.
- The professional firm shall prepare, submit and provide DEP Air Quality (AQ) Plan Approval for the installation and operation of the project’s two new 750 HP steam package boilers prior to the expenditure of project funds to obtain the new package boiler units or any other project related equipment and prior to the initiation of construction of this Capital Project.
- The professional firm shall design and install DEP approved test sampling ports on the roof top stacks of each of the project’s two (2) new 750 steam package boilers.
- The professional firm shall be responsible for the conduct of DEP required Nitrous Oxide (NO_x) and Carbon Monoxide (CO) emission rate compliance testing of each newly installed steam package boiler for both natural gas and #2 heating oil burner firing in accordance with the source testing standards of PA Title 25, Chapter 139 and DEP’s latest version of the Source Testing Manual as required by the terms of the DEP AQ Plan Approval for the project within 180 days of completion of construction of each package boiler unit.
- The professional firm shall be responsible for preparing and submitting a Pretest Procedural Protocol that is acceptable to both the DEP Southwest Regional Office and the PA DEP Source Test Review Section at the Harrisburg Rachael Carson Office Building (RCOB). The professional firm shall obtain a letter of approval of the submitted Pretest Procedural Protocol from DEP prior to the conduct of the project’s required NO_x and CO emission compliance rate testing.
- The professional firm shall comply with any DEP conditional approval requirements of the Pretest Procedural Protocol and shall notify the DEP Regional Office in writing at least 30 business days in advance of the scheduled emission rate compliance test dates.
- The professional firm is responsible for preparing and submitting all UCC Level I and Level II Building Alterations permit applications, application fees, professional sealed project design plans, specifications and any other project documentation that is required by the PA Department of Labor and Industry (L&I) to issue UCC Level I and/or Level II Building Alteration permits as required to complete construction of this central boiler plant project.
- The professional firm is responsible for obtaining all required L&I final construction inspection sign offs and UCC Certificates of Completion from L&I for all UUC permitted project work that is performed under the L&I issued UCC Level I and Level II Building Alteration permits.

- The professional firm shall provide photocopies of the obtained L&I final construction inspection sign offs and UCC Certificates of Completion for all UUC permitted project work to the Chief Operating Officer (COO) of the facility and to the Engineering Section Chief of the PA DHS Division of Facilities and Property Management (DFPM) prior to final project acceptance by the facility.
- The professional firm is responsible for preparing and submitting all required L&I Intent to Install Boiler application forms (LIBI-302), any L&I Boiler Variance Request Applications, all application fees, project design plans, specifications any other documentation that is required by the PA Department of Labor and Industry (L&I) Boiler Division to issue L&I approved Intent to Install Boiler forms for each package boiler that is to be installed under this project.
- The professional firm is responsible for scheduling and obtaining the final construction inspection of the project's installed package boilers from the L&I Boiler Division PA Certified Boiler inspector and the Hartford Insurance Company inspector. The professional firm is responsible for paying all inspection fees to the PA L&I Boiler Division for each package boiler unit that is installed under the work of this project.
- The professional firm is responsible for obtaining a Certificate of Operation from the PA L&I Boiler Division for each package boiler that is installed under the work of this project.
- The professional firm shall provide photocopies of the obtained Certificate of Operation from the PA L&I Boiler Division to the Chief Operating Officer (COO) of the facility and to the Engineering Section Chief of the PA DHS Division of Facilities and Property Management (DFPM) prior to final project acceptance by the facility.
- The professional firm shall provide a detailed commissioning report of the project's newly installed package boilers and burner tuning portable analyzer results, associated aboveground fuel storage tank(s) system and the new variable speed drive feed-water pumps consisting of a visual inspection of the installation, systems startup check, documentation of start-up procedures, functional testing to ensure that integrated operating systems function as designed, facility maintenance manager attendance and sign off that all package boiler equipment and related systems have been completely installed and function satisfactory.
- The professional firm shall provide onsite classroom and hands on training of facility boiler plant staff on the operation of the new package boilers, boiler controls, associated new feed-water pumps and fuel delivery system.
- Installation of this project's new package boilers during construction may potentially disturb asbestos containing thermal system insulation (TSI) on existing steam supply and condensate return piping and valves that are located in the central heating plant at Torrance State Hospital where the project's package boilers are to be installed. The professional firm shall be responsible for properly sampling, identifying, abating and disposing of any asbestos containing TSI that occurs within the limits of work of this project that is necessary to install the project's new package boilers and associated supporting systems equipment. An asbestos survey report is available for review at the facility to the appointed Professional.

c. **Federal Funding**

- NONE

2. ORGANIZATION, FUNCTIONS AND SPACE

a. Organizational Features

- This project involves the addition of two (2) new dual fuel fired 750 HP steam package boiler units that are to be installed inside the ground floor elevation of the existing central heating plant building at Torrance State Hospital. Demolition and removal of two (2) existing out-of-service coal fired boilers and office space that are located on the ground floor elevation inside the central heating plant building is necessary to provide adequate interior floor space to permanently install the project's two (2) package boiler units.
- The project's associated aboveground storage tank system is to be constructed outdoors in close proximity to the central boiler plant building.
- The existing installed natural gas pipeline, water line and electric service that are situated inside the central boiler plant building shall be extended to service the new dual fuel fired steam package boiler units that are to be installed under this project.
- Heating oil fuel delivery and supply lines shall extend from the adjoining outdoor location of the project's aboveground storage tank system inside the central boiler plant building to each of the project's two (2) new dual fuel fired steam package boiler units.

b. Functional Units/Equipment

- There are approximately 40 structures comprising over 714,325 heated square feet on 377 acres that compose the campus property of Torrance State Hospital. There daily population averages 377 persons.
- This two new steam package boilers and the associated aboveground storage tank system will be located at the existing central boiler plant building at Torrance State Hospital which will operate independently and will not impact other campus structures or infrastructure.

c. Space Requirements

- No new buildings or increase in net space inside the central boiler plant building at Torrance State Hospital is required to install the project's two new steam package boilers inside the building.
- Approximately 2500 SF of additional vacant ground floor elevation area is required at the project site located adjacent to the central boiler plant building to construct the project's new aboveground storage tank system.
- This project does not require the acquisition of any new property, Right-of-Way, Utility Easements, or impact the spatial requirements of existing infrastructure or buildings at Torrance State Hospital.
- The professional engineering firm will evaluate the spatial requirement of each new individual steam package boiler, the new variable speed drive feed water pumps, associated required supporting equipment and the new aboveground storage tank system when determining and designing the layout of the project.

d. Future or Adjacency Considerations

- This project does not require an accommodation for growth/expansion.
- There are no adjoining facilities that will influence this project.

3. PLANS, CONCEPTS AND STUDIES

a. Completed Documents

- Building plans are available for review at the facility maintenance department of Torrance State Hospital to the appointed Professional.
- The central boiler plant building (Bldg. #16 Power House) at Torrance State Hospital has a current L&I Occupancy Permit (#14207).

b. Available Concepts/Design

- There are not any abstract or conceptual design plans for this project that exist.
- As-build drawings and DGS capital project file drawings of the central boiler plant building are available for review at the facility to the appointed Professional.

c. Required Plans/Services

- The professional firm shall review available engineering plan sets and As-build drawings of the existing central boiler plant building (Bldg. #16 - Power House) at the facility prior to developing the project's conceptual plan or preliminary engineering plans.
- The professional firm shall review available Asbestos Survey reports available at the facility.
- The professional firm shall be entirely responsible for developing, preparing and submitting the design conceptual plan, project layout, complete preliminary and final engineering plan sets, all required permits, permit application fees, equipment and construction of two (2) fully functional package boiler systems and the related aboveground storage tank system at the central boiler plant of Torrance State Hospital.
- The professional firm shall develop conceptual plans and an explanation of the design concept and layout of the equipment, infrastructure and systems that are required to implement this project for approval by the DHS, Division of Facilities and Management, Engineering Section Chief prior to proceeding with the preparation of preliminary engineering plans.
- The professional firm shall provide one (1) complete print set of the approved, sealed, final engineering plan set for the project and a copy of the AutoCad drawing files of the same plan set on CD to both the facility COO and the DHS DFPM Engineering Sect. Chief prior to construction of the project.
- The professional firm shall provide one (1) complete print set of the approved, sealed, As-Built engineering plan set for the project and a copy of the AutoCad drawing files of the same As-Built engineering plan set plan set on CD to both the facility COO and the DHS DFPM Engineering Sect. Chief prior to submitting the final project payment request.

d. Required Tests

- Completed project commissioning testing and commissioning report for each steam package boiler unit and the aboveground storage tank system installed under the work of this project.
- DEP acceptance of a successful Nitrous Oxide (NO_x) and Carbon Monoxide (CO) emission rate compliance source stack test on both #2 heating fuel oil and natural gas firing of each new steam package boiler unit that is installed under the work of this project as more fully described by Section 1 b. Special Features.

4. SITE, EXISTING STRUCTURES, PROPERTY

a. **Siting**

The Pennsylvania Department of General Services (DGS) holds title to the land and structures at Torrance State Hospital.

b. **Code Issues**

The work of this project shall comply with all applicable regulations of NFPA (National Fire Protection Association), National Electric Code (NEC), UCC (Uniform Construction Code), ASME and American Petroleum Institute (API) codes, the PA Department of Labor and Industry (L&I) Boiler Division regulations, the PA Department of Labor and Industry (L&I) UCC Building Alteration permits, PA DEP and U.S. EPA Air Quality regulations, PA DEP Aboveground Storage Tank regulations, the International Mechanical Code (IMC), the International Fuel and Gas Code (IFGC), the International Plumbing Code (IPC), the International Energy Conservation Code (IECC), Joint Commission regulations, and other related federal, state, and local codes.

c. **Utility Services**

A natural gas pipeline exists at the central boiler plant at Torrance State Hospital which provides natural gas utility service to the existing 350 HP Cleaver Brooks boiler. The project design professional must evaluate the capacity of the existing natural gas pipeline and extend new natural gas pipeline service to the project's new steam package boiler units. Temporary power for construction of this project will be provided by the facility at the central boiler plant. The facility's primary and secondary electrical supply enter the facility at the substation that is located at the central boiler plant. Potable water and electric service that are available at the central boiler plant will have to be extended by the project firm to the new steam package boiler units that are to be located inside the central boiler plant building to provide permanent utility service to the project's boilers.

d. **Contaminants**

An existing asbestos facility building survey was completed by DGS and is available for reference at the facility to the appointed Professional. Asbestos thermal insulation is present at the central boiler plant which could be potentially impacted by the project scope. Any asbestos abatement work and hazardous material disposal that is required to implement the scope of this project is entirely the responsibility of the project professional firm.

e. **Conditions**

The location of known existing structures, existing utilities, storm drains, roads, parking areas, coal stockpiles, coal storage and ash handling facilities will influence the professional's design concept and layout of this project.

5. AGENCY POINT OF CONTACT

Torrance State Hospital:
Mr. Robert Snyder, COO
P.O. Box 111, State Route 1014
Torrance, PA 15779-0111
Telephone: (724) 459-4426
E-mail: robetsyder@pa.gov

DHS Engineering Contact:
Mr. Michael Kapil, Eng. Sect. Chief
PA DHS, Div. of Facilities and Property Mgmt.
3 Gingko Drive
Hilltop Building #52
Harrisburg, PA 17110
Telephone: (717) 783-2083
FAX: (717) 772-2091
E-mail: mkapil@state.pa.us

PROJECT NO. DGS 576-10 PHASE 1

**ROOF REPLACEMENTS
SCI - CHESTER
CHESTER TWP., DELAWARE COUNTY, PA**

1. NATURE AND CONCEPT OF PROJECT

a. Nature of Project:

The project includes replacement of roofs on various buildings, and other associated work as required. A prioritized list of buildings will be developed by DOC in coordination with the design professional.

b. Special Features:

N/A

c. Federal Funding:

N/A

2. ORGANIZATION, FUNCTIONS AND SPACE

a. Organizational Features:

The State Correctional Institution at Chester is administered by the Pennsylvania Department of Corrections. SCI Chester houses approximately 1200 adult male offenders.

b. Functional Units/Equipment:

N/A

c. Space Requirements:

N/A

d. Future or Adjacency Considerations:

N/A

3. PLANS, CONCEPTS AND STUDIES

a. Completed Documents:

Some drawings and an AutoCAD file of the overall site plan are available and will be provided to the appointed professional. All drawings and AutoCAD files must be field verified by appointed professional.

b. Available Concepts/Design:

N/A

c. Required Plans/Service:

N/A

d. **Required Tests:**

N/A

4. **SITE, EXISTING STRUCTURES, PROPERTY**

a. **Siting:**

The project is located on Commonwealth of Pennsylvania owned property. Roof replacements are on existing buildings located both inside and outside of the institution's secure perimeter, and all activity must adhere to DOC security requirements.

b. **Code Issues:**

Project must conform to all applicable Local, State, and Federal rules and regulations. There are no known code issues.

c. **Utility Services:**

Utilities are available on site within limitations of the facility.

d. **Contaminants:**

There are no known contaminant issues on this project.

e. **Conditions:**

All contractors must follow the guidelines and procedures as outlined in Department of Corrections Policy – Volume 06 Security.

5. **AGENCY POINT OF CONTACT**

Marcel Tassin, P.E., Director
Bureau of Operations
1920 Technology Parkway
Mechanicsburg, PA. 17075
(717) 728-0375

**PROJECT NO. DGS 948-76 PHASE 4
THEATRICAL LIGHTING
FORUM BUILDING
THE CAPITOL COMPLEX
HARRISBURG, DAUPHIN COUNTY, PA**

1. NATURE AND CONCEPT OF PROJECT

a. Nature of Project

Project includes the in-kind replacement of all existing theatrical lighting fixtures and controls within the auditorium & stage with new LED type/digital controls/light board and Cabling.

b. Special Features

This building is located in downtown Harrisburg within the Capitol Complex. Facility security and safety regulations will apply to all work conducted therein.

c. Federal Funding

There are no federal or private funds to be accommodated throughout this project.

2. ORGANIZATION, FUNCTION AND SPACE

a. Organizational Features

The Forum event schedule will need to be accommodated throughout this project.

b. Functional Units/Equipment

N/A

c. Space Requirements

Space Requirements are not an issue for this Project.

d. Future or Adjacency Considerations

No requirements for any additions to the existing building are anticipated.

3. PLANS, CONCEPTS AND STUDIES

a. Completed Documents

DGS/E&A holds the Master Plans for this building and will be available to the appointed Professional.

b. Available Concepts/Design

See attached for Auditorium Theatrical Lighting

c. Required Plans/Services

N/A

d. Required Tests

The professional shall pursue testing to determine if hazardous (asbestos or lead) containing materials exist.

4. SITE, EXISTING STRUCTURES, PROPERTY

- a. Siting
DGS Owned building
- b. Code Issues
UCC Compliance
- c. Utility Services
Permanent utilities are available on site.
- d. Contaminants
Unknown
- e. Conditions
No special Conditions are known that will affect the project.

5. AGENCY POINT OF CONTACT

Lori Sherlock, Special Events Office

Bureau of Facilities Management

Telephone: (717) 783-9100

E-mail: lsherlock@pa.gov

ATTACHMENT

FORUM AUDITORIUM THEATRICAL LIGHTING

UPPER PROMENADE 30 LED ELLIPSOIDALS

- 8 Altman Phoenix RGBWA 250 W LED 5 Degree
- 12 Altman Phoenix RGBWA 250 W LED 14 Degree
- 10 Altman Phoenix RGBWA 250 W LED 10 Degree

SUNBURST (6) AND SPEAKER CLUSTER (2)

- 8 Total Altman Phoenix RGBWA 250 W LED 50 Degree

ABOVE STAGE

- Upstage 10 Chroma –Q Color Force 72
- Downstage 9 Chroma- Q Color Force 72

IN ORGAN BOX

- 6 Phillips Endura PAR38 LED Dimmable Lamps

CONSOLE

- Ion 2000 with 2048 outputs

DIMMING SYSTEM

DMX DISTRIBUTION SYSTEM

NETWORK CONTROL EQUIPMENT

CONTROL PLUG IN STATIONS

ARCHITECTURAL CONTROL SYSTEM